



SEQUENCE LISTING

<110> MA, Jing  
GUO, Yajun

<120> ANTIBODIES SPECIFIC FOR CANCER  
ASSOCIATED ANTIGEN SM5-1 AND USES THEREOF

<130> 549062000100

<140> US 10/722,849

<141> 2003-11-26

<150> CN 03129123.6

<151> 2003-06-06

<160> 14

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 119

<212> PRT

<213> Homo Sapiens

<400> 1

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr	
			20					25					30			
Val	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	
		35				40						45				
Gly	Tyr	Ile	Val	Pro	Tyr	Asn	Asp	Gly	Thr	Lys	Tyr	Asn	Glu	Lys	Phe	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Ser	Asp	Lys	Ser	Lys	Ser	Thr	Ala	Phe	
65					70				75					80		
Leu	Gln	Met	Asp	Ser	Leu	Arg	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85					90						95		
Ala	Arg	Gly	Ser	Arg	Tyr	Asp	Trp	Tyr	Leu	Asp	Tyr	Trp	Gly	Gln	Gly	
			100					105					110			
Thr	Pro	Val	Thr	Val	Ser	Ser										
			115													

<210> 2

<211> 113

<212> PRT

<213> Homo Sapiens

<400> 2

Asn	Ile	Met	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	
1				5					10					15		
Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Val	Leu	Tyr	Ser	
			20					25					30			
Ser	Asn	Gln	Lys	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Thr	Pro	Gly	Lys	

	35					40				45							
Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val		
	50					55					60						
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Tyr	Thr	Phe	Thr		
65					70					75					80		
Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	His	Gln		
				85					90					95			
Tyr	Phe	Ser	Ser	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Gln	Ile	Thr		
			100					105					110				
Arg																	

<210> 3  
 <211> 119  
 <212> PRT  
 <213> Mus Musculus

Glu	Val	Gln	Leu	Gln	Gln	Ser	Gly	Pro	Glu	Leu	Val	Lys	Pro	Gly	Ala		
1				5					10					15			
Ser	Val	Lys	Met	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr		
			20					25					30				
Val	Met	His	Trp	Val	Lys	Gln	Lys	Pro	Gly	Gln	Gly	Leu	Asp	Trp	Ile		
		35					40					45					
Gly	Tyr	Ile	Val	Pro	Tyr	Asn	Asp	Gly	Thr	Lys	Tyr	Asn	Glu	Lys	Phe		
	50					55					60						
Lys	Gly	Lys	Ala	Thr	Leu	Thr	Ser	Asp	Lys	Ser	Ser	Ser	Thr	Ala	Tyr		
65					70					75					80		
Met	Glu	Leu	Ser	Arg	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys		
				85					90					95			
Val	Tyr	Gly	Ser	Arg	Tyr	Asp	Trp	Tyr	Leu	Asp	Val	Trp	Gly	Ala	Gly		
			100					105					110				
Thr	Thr	Val	Thr	Val	Ser	Ser											
			115														

<210> 4  
 <211> 113  
 <212> PRT  
 <213> Mus Musculus

Asn	Ile	Met	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ala	Val	Ser	Ala	Gly		
1				5					10					15			
Glu	Lys	Val	Thr	Met	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Val	Leu	Tyr	Ser		
			20					25					30				
Ser	Asn	Gln	Lys	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln		
		35					40					45					
Ser	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val		
	50					55					60						
Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr		
65					70					75					80		
Ile	Ser	Ser	Val	Gln	Ala	Glu	Asp	Leu	Ala	Val	Tyr	Tyr	Cys	His	Gln		
				85					90					95			
Tyr	Phe	Ser	Ser	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys		
			100					105					110				

Arg

<210> 5

<211> 357

<212> DNA

<213> Homo Sapiens

<400> 5

```
cagggtgcagc tgggtgcagtc tggcgggtgga gtgggtccagc ccggccgcag cctgaggctg 60
tcctgcaagg catctggcta caccttcacc agctacgtga tgacatgggt gcgccaagcc 120
cccggaaaagg gcctcgaatg gattggctac attgtgcctt ataatgacgg tactaagtac 180
aatgaaaagt tcaagggcag atttacaata tcaagtgaca agagcaagtc aaccgcattc 240
ctccaaatgg acagcttgcg tccagaggac accgccgtat actattgtgt gcgcggcagc 300
cgttacgact ggtacttggga ctactggggc caaggcactc cagtcaccgt ctcctct 357
```

<210> 6

<211> 339

<212> DNA

<213> Homo Sapiens

<400> 6

```
aacatcatga tgactcagag cccatccagc ttgagcgcag cagtaggcga ccgcgtaacg 60
atcacttgca aatcctctca gtcagtattg tactccagca accagaagaa ctacctggcc 120
ggatatcagc agactcccgg caaagcccca aagttgctga tttattgggc ctccacgcgc 180
gagtctggcg tgccatcacg ctttagcggc agcgggtccg gtacagatta caggtttacc 240
attagcagtc tgcagcctga ggacatagc acctactact gtcaccagta ctttagttcc 300
tacacttttg gccagggaac taaactgcag attactcga 339
```

<210> 7

<211> 357

<212> DNA

<213> Mus Musculus

<400> 7

```
gagggtccagc tgcagcagtc tggacctgag ctggtaaagc ctggggcttc agtgaagatg 60
tcctgcaagg cttctggata cacattcact agctatgtta tgcactgggt gaagcagaag 120
cctgggagcagg gccttgactg gattggatat attgttcctt acaatgatgg cactaagtac 180
aatgagaagt tcaaaggcaa ggccacactg acttcagaca aatcctccag cacagcctac 240
atggagctca gcagactgac ctctgaggac tctgcggtct attattgtgt ctacggtagt 300
aggtacgact ggtattttaga tgtctggggc gcagggacca cggtcaccgt ctcctca 357
```

<210> 8

<211> 339

<212> DNA

<213> Mus Musculus

<400> 8

```
aacattatga tgacacagtc gccatcatct ctggctgtgt ctgcaggaga aaaggctcact 60
atgagctgta agtccagtca aagtgtttta tacagttcaa atcagaagaa ctacttggcc 120
tggtaccagc agaaaccagg gcagtctcct aaactgctga tctactgggc atccactagg 180
gaatctggtg tccctgatcg cttcacaggc agtggatctg ggacagattt tactcttacc 240
atcagcagtg tacaagctga agacctggca gtttattact gtcacatcaata tttctcctca 300
tacacgttcg gaggggggac caagctggaa ataaagcgg 339
```

<210> 9

<211> 119  
 <212> PRT  
 <213> Homo Sapiens

<400> 9

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Cys
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ser	Ser	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr
			20					25					30		
Thr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Tyr	Ile	Asn	Pro	Tyr	Asn	Asp	Gly	Gly	Lys	Tyr	Asn	Glu	Lys	Phe
	50					55					60				
Lys	Trp	Arg	Phe	Ser	Ile	Ser	Ser	Asp	Lys	Ser	Lys	Asn	Thr	Leu	Phe
65					70				75					80	
Leu	Gln	Ser	Asp	Ser	Leu	Thr	Pro	Glu	Asp	Thr	Gly	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Arg	Gly	Ser	Arg	Tyr	Asp	Trp	Tyr	Gly	Asp	Tyr	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Pro	Val	Thr	Val	Ser	Ser									
			115												

<210> 10  
 <211> 113  
 <212> PRT  
 <213> Homo Sapiens

<400> 10

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Gly	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Asp	Ser	Ser	Gln	Ser	Val	Leu	Tyr	Ser
		20						25				30			
Ser	Lys	Asp	Asp	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Gly	Pro	Gly	Lys
		35					40					45			
Ala	Pro	Ser	Leu	Leu	Ile	Tyr	Tyr	Ala	Ser	Asp	Arg	Glu	Ser	Asp	Val
	50					55				60					
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Asp	Asp	Tyr	Thr	Leu	Thr
65					70				75					80	
Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys	His	Gln
			85					90					95		
Trp	Phe	Ser	Ser	Tyr	Thr	Phe	Asp	Gln	Gly	Thr	Lys	Leu	Asn	Ile	Thr
			100					105					110		
Arg															

<210> 11  
 <211> 357  
 <212> DNA  
 <213> Homo Sapiens

<400> 11

cagg	tg	cagc	tggt	ggagtc	tggc	ggtgga	gtgg	tccagc	ccgg	ctgcag	cctg	aggctg	60
tcct	gcagta	gctc	tggtgta	cacct	tcacc	agct	acacca	tgac	atgggt	gcgc	caagcc	120	
cccg	gaaagg	gctc	ggaatg	gatt	ggctac	atta	atcctt	ataa	tgacgg	tgga	aggtac	180	
aatg	aaaagt	tcaag	tggag	atttt	caata	tcaag	tgaca	agag	caagaa	cacct	gttc	240	

ctccaaagcg acagcttgac cccagaggac accggcgat actatttgtt gcgcggcagc 300  
cgttacgact ggtacgggga ctactggggc caaggcactc cagtcaccgt ctcctct 357

<210> 12  
<211> 339  
<212> DNA  
<213> Homo Sapiens

<400> 12  
gacatccaga tgactcagag cccatccagc ttgagcggct cagtaggcga ccgcgtaacg 60  
atcacttgcg actcctctca gtcagtattg tactccagca aagacgacaa ctacctggcc 120  
ggatatcagc aggggcccgg caaagcccca agcttgctga tttattatgc ctccgaccgc 180  
gagtctgacg tgccatcacg ctttagcggc agcgggtccg gtgatgatta cacgctgacc 240  
attagcagtc tgcagcctga ggacgccgcc acctactact gtcaccagtg gtttagttcc 300  
tacacttttg accagggaac taaactgaac attactcga 339

<210> 13  
<211> 22  
<212> PRT  
<213> Homo Sapiens

<400> 13  
Met Asp Phe Gln Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser  
1 5 10 15  
Val Ile Ile Ser Arg Gly  
20

<210> 14  
<211> 67  
<212> DNA  
<213> Homo Sapiens

<400> 14  
atggattttc aggtgcagat tttcagcttc ctgctaataca gtgcctcagt cataatatcc 60  
agaggag 67